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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,951	03/17/2004	William F. DeGrado	1694.0630003	2895

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STERNE, KESSLER, GOLDSTEIN & FOX PLLC
1100 NEW YORK AVENUE, N.W.
WASHINGTON, DC 20005

EXAMINER

CHONG, YONG SOO

ART UNIT	PAPER NUMBER
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1617

DATE MAILED: 09/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/801,951	Applicant(s) DEGRADO ET AL.	
	Examiner Yong S. Chong	Art Unit 1617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 June 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12, 15-51, 54-59, 62, 63 and 65 is/are pending in the application.
- 4a) Of the above claim(s) 1-12, 15, 49-51, 54-59, 62, 63 and 65 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 16-48 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

Restriction to the following inventions is required under 35 U.S.C. 121:

- I. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be an amide, and A1 and A2 are independently arylene substituted with non-polar groups, classified in 514/675.
- II. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be an ester, and A1 and A2 are independently arylene substituted with non-polar groups, classified in 514/506.
- III. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a thiol, and A1 and A2 are independently arylene substituted with non-polar groups, classified in 514/706.
- IV. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a sulfonamide, and A1 and A2 are independently arylene substituted with non-polar groups, classified in 514/600.
- V. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a sulfonate ester, and A1 and A2 are independently arylene substituted with non-polar groups, classified in 514/709.
- VI. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a thiocarboxamide, and A1 and A2 are independently arylene substituted with non-polar groups, classified in 514/599.
- VII. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II,

Art Unit: 1617

where x and y are taken together to be pyromellitic diimide, and A1 and A2 are independently arylene substituted with non-polar groups, classified in 514/241.

- VIII. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be an amide, and A1 and A2 are independently arylene substituted with polar groups, classified in 514/675.
- IX. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be an ester, and A1 and A2 are independently arylene substituted with polar groups, classified in 514/506.
- X. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a thiol, and A1 and A2 are independently arylene substituted with polar groups, classified in 514/706.
- XI. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a sulfonamide, and A1 and A2 are independently arylene substituted with polar groups, classified in 514/600.
- XII. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a sulfonate ester, and A1 and A2 are independently arylene substituted with polar groups, classified in 514/709.
- XIII. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a thiocarboxamide, and A1 and A2 are independently arylene substituted with polar groups, classified in 514/599.
- XIV. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be pyromellitic diimide, and A1 and A2 are independently arylene substituted with polar groups, classified in 514/241.

Art Unit: 1617

- XV. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be an amide, and A1 and A2 are independently heteroarylene substituted with non-polar groups, classified in 514/675.
- XVI. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be an ester, and A1 and A2 are independently heteroarylene substituted with non-polar groups, classified in 514/506.
- XVII. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a thiol, and A1 and A2 are independently heteroarylene substituted with non-polar groups, classified in 514/706.
- XVIII. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a sulfonamide, and A1 and A2 are independently heteroarylene substituted with non-polar groups, classified in 514/600.
- XIX. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a sulfonate ester, and A1 and A2 are independently heteroarylene substituted with non-polar groups, classified in 514/709.
- XX. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a thiocarboxamide, and A1 and A2 are independently heteroarylene substituted with non-polar groups, classified in 514/599.
- XXI. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be pyromellitic diimide, and A1 and A2 are independently heteroarylene substituted with non-polar groups, classified in 514/241.

Art Unit: 1617

- XXII. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be an amide, and A1 and A2 are independently heteroarylene substituted with polar groups, classified in 514/675.
- XXIII. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be an ester, and A1 and A2 are independently heteroarylene substituted with polar groups, classified in 514/506.
- XXIV. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a thiol, and A1 and A2 are independently heteroarylene substituted with polar groups, classified in 514/706.
- XXV. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a sulfonamide, and A1 and A2 are independently heteroarylene substituted with polar groups, classified in 514/600.
- XXVI. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a sulfonate ester, and A1 and A2 are independently heteroarylene substituted with polar groups, classified in 514/709.
- XXVII. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be a thiocarboxamide, and A1 and A2 are independently heteroarylene substituted with polar groups, classified in 514/599.
- XXVIII. Claims 16-48 (in part) are drawn to a method of treating a microbial infection in an animal comprising administering an oligomer of Formula II, where x and y are taken together to be pyromellitic diimide, and A1 and A2 are independently heteroarylene substituted with polar groups, classified in 514/241.

Art Unit: 1617

The inventions are distinct, each from the other because of the following reasons:

Inventions I-XXVIII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the different inventions are classified under several formulas, which may include multiple and various polar groups (PL), non-polar groups (NPL), heteroarylene groups, heteroatoms, as well as other functional groups comprising oxygen, nitrogen, and sulfur. By reading the claims broadly, a multitude of totally different compounds can be envisioned. They have different structures, thus leading to different reactivity, binding affinity, mechanism, stability, polarity, bioavailability, efficacy, solubility, and modes of action. Furthermore, the search for one will not lead to information regarding another, and vice versa. Because these inventions are distinct for the reasons given above and the search required for one invention is not required for another, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Species Election

This application contains claims directed to more than one species of the generic invention.

The species are as follows:

- 1) a single disclosed oligomer

If applicant elects among Inventions I-XXVI, applicant is further required to elect a single disclosed oligomer from subsection 1. Currently, claims 16-48 are generic to a plurality of disclosed patentably distinct species.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed. Note the court in *In re Herrick et al.* and *In re Joyce et al.* (both at 115 USPQ 412) held that an election of species requirement was, in fact, a restriction requirement.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

A telephone call to the attorney is not required where: 1) the restriction requirement is complex, 2) the application is being prosecuted pro se, or 3) the examiner knows from past experience that a telephone election will not be made (MPEP § 812.01). Therefore, since this restriction requirement is considered complex, a call to the attorney for telephone election was not made.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yong S. Chong whose telephone number is (571)-272-8513. The examiner can normally be reached on M-F, 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SREENI PADMANABHAN can be reached on (571)-272-0629. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Art Unit: 1617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YSC


SHENGJUNWANG
PRIMARY EXAMINER